

Preliminary Amendment - 10/7/90 316

"CLEAN" ABSTRACT**Abstract**

This invention presents improved combustion methods, systems, engines and apparatus utilizing H_2 , O_2 and H_2O as fuel, thereby providing environmentally friendly combustion products, as well as improved fuel and energy management methods, systems, engines and apparatus. The Water Combustion Technology, WCT, is based upon water (H_2O) chemistry, more specifically H_2O combustion chemistry and thermodynamics. WCT does not use any hydrocarbon fuel source, rather the WCT uses H_2 preferably with O_2 and secondarily with air. The WCT significantly improves the thermodynamics of combustion, thereby significantly improving the efficiency of combustion, utilizing the first and second laws of thermodynamics. The WCT preferably controls combustion temperature with H_2O and secondarily with air in the combustion chamber. The WCT preferably recycles exhaust gas energy as fuel converted from water. The WCT minimizes external cooling loops and minimizes exhaust and/or exhaust energy, thereby maximizing available work and internal energy while minimizing enthalpy and entropy losses.

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Customer Service Center Objection

The required item(s) identified below must be timely submitted to avoid abandonment:

- An abstract of the technical disclosure not exceeding 150 words in length and commencing on a separate sheet in compliance with 37 CFR 1.72(b) is required. An abstract was not provided with this application.

Applicant Response

Applicant notes that an abstract was inadvertently omitted. Applicant thanks the Customer Service Center for pointing this out to Applicant. To correct, an abstract is enclosed according to 37 CFR 1.121. Accordingly an abstract is provided with underlining as the "market up" page along with a "clean" page of the abstract.

Customer Service Center Objection

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of \$1000 as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$1000 for a Small Entity.

- Total additional claim fee(s) for this application is \$1000
 - \$172 for 4 independent claims over 3.
 - \$828 for 234 total claims over 20.

APPLICANT RESPONSE

Applicant was at first confused as to the assertion of 254 claims. Then Applicant noticed that some of the dependent claims were not in accordance with 37 CFR 1.75 (c). Applicant appreciates notification that many of the dependent claims do not follow 37 CFR 1.75 (c). Applicant has corrected the claims to conform with 37 CFR 1.75 (c).

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A "market up" set of claims are included according to 37 CFR 1.121. Since a "clean" set of claims are often preferred with which to work, a "clean" set of claims is also provided.

The new claim set includes:

170 total claims.	170 - 20 allowed = 150 extra claims,	150 X 9 = \$1350
4 independent claims.	4 - 3 allowed = 1 extra claim,	1 X 43 = \$ 43
Multiple dependent claim fee		\$ 145
Total extra claim fees due		\$ 1538
Amount paid		(1808)
Overage paid		\$ 270

Applicant's corrections should place the application in a position for examination.
Should the customer service center require other items, please inform.

Respectfully submitted,



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